

IN THE CLAIMS

Please amend the claims as follows:

1. (Previously Presented) A camshaft for an engine, said camshaft comprising a support shaft carrying in a region of one end thereof a camshaft element for co-rotation therewith, said support shaft is configured to capture the camshaft element thereon by a head of a rivet formed of a plastically deformed portion at said end of said support shaft that extends radially outward beyond a sidewall defining an opening in the camshaft element through which said end of said support shaft is configured to be disposed.
2. (Original) A camshaft according to claim 1, wherein said support shaft includes a hollow portion extending inwardly from said end.
3. (Original) A camshaft according to claim 2, wherein said support shaft comprises a tube.
4. (Original) A camshaft according to claim 1, wherein said rivet comprises a radially extending eyelet rivet.
5. (Previously Presented) A camshaft according to claim 1, wherein said rivet head is formed by a radial cold flow forming technique.
6. (Original) A camshaft according to claim 5, wherein said radial cold flow forming technique comprises an orbital riveting technique.

7. (Original) A camshaft according to claim 6, wherein said orbital riveting technique comprises a daisy riveting technique.

8. (Original) A camshaft according to claim 1, wherein said rivet head is formed from a deformation zone of said support shaft, which deformation zone overhangs said camshaft element when said camshaft element is in place.

9. (Original) A camshaft according to claim 8, wherein said deformation zone includes, at least before deformation, a hollow rim at said end.

10. (Original) A camshaft according to claim 1, wherein said camshaft element comprises a rotation sensor target member.

11. (Original) A camshaft according to claim 10, wherein said camshaft element comprises a substantially planar target member.

12. (Original) A camshaft according to claim 1, wherein said camshaft element comprises a drive member configured to transfer rotational drive to or from said camshaft.

13. (Original) A camshaft according to claim 1, wherein said camshaft element is formed from a sheet or plate material.

14. (Original) A camshaft according to claim 1, wherein said camshaft element is located on a journal at said end of said support shaft and is captured against a shoulder on said support shaft by said rivet head.

15. (Previously Presented) A method of producing a camshaft for an engine, the method including:

- a) providing a support shaft having an end portion adapted to support a camshaft element;
- b) providing on said end portion a camshaft element for co-rotation with said support shaft; and
- c) capturing said camshaft element onto said support shaft by plastically deforming a deformation zone of said end portion into a radially extending rivet head that extends radially outward beyond a sidewall defining an opening in the camshaft element through which said end of said support shaft is configured to be disposed.

16. (Original) A method according to claim 15, including providing a hollow portion defined in said camshaft, said hollow portion extending inwardly through said end portion.

17. (Original) A method according to claim 15, including using a tube for said support shaft.

18. (Original) A method according to claim 15, including riveting said shaft element onto said support shaft using a radial cold flow forming technique.

19. (Original) A method according to claim 18, including using, for said radial cold flow formation, an orbital or daisy riveting technique.

20. (Previously Presented) An engine including a camshaft, said camshaft comprising a support shaft carrying in a region of one end thereof a camshaft element for co-rotation therewith, said support shaft is configured to capture the camshaft element thereon by a head of a rivet formed of a plastically deformed portion at said end of said support shaft that extends radially outward beyond a sidewall defining an opening in the camshaft element through which said end of said support shaft is configured to be disposed.

21. (Previously Presented) A camshaft according to claim 1, wherein the head of the rivet contacts a portion of the camshaft element other than a sidewall defining an opening in the camshaft element through which the end of the shaft is disposed.

22. (New) A camshaft according to claim 1, further comprising:
at least one camshaft lobe positioned on the camshaft,
wherein the rivet head is located outside the camshaft element in an axial direction from the camshaft lobe.

23. (New) A camshaft according to claim 1, wherein the entire camshaft element fits between the rivet head and a shoulder on the support shaft in an axial direction of the support shaft.